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SEQUENCE LISTING

<110> Fujisawa Pharmaceutical Co., Ltd.

<120> New methods for selecting an immunosuppressive agent having the reduced risk of causing thrombocytopenia as its side effect

<130> PW023998

<140> PCT/JP03/08621

<141> 2003-07-07

<150> JP 2002-203901

<151> 2002-07-12

<160> 17

<170> PatentIn version 3.1

<210> 1

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer-1

<400> 1

tcgctagcct gagtatttaa caatgcacc ct

32

<210> 2

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer- 2

<400> 2

cgaagcttgt ggcaggagtt gaggttactg

30

<210> 3

<211> 30

<212> DNA

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer-3

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cgctagctgc tcttgccac cacaatatgc

30

<210> 4

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer-4

<400> 4

atagatctat ccctggctcc cacctcag

28

<210> 5

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer-5

<400> 5

ataagctttg gtggttgagg agggttcg

28

<210> 6

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer-6

<400> 6

atggtaccac cccagaagat gccaggag

28

<210> 7

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer- 7

<400> 7

atgctagcgc cctctgagcc tcagtttc

28

<210> 8

<211> 731

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(731)

<223> Human interleukin-2 (IL-2) gene 5'-flanking region

<220>

<221> TATA_signal

<222> (652)..(657)

<223>

<220>

<221> misc_feature

<222> (676)..(657)

<223> The putative transcription initiation site of the IL-2 gene promoter

<220>

<221> misc_feature

<222> (1)..(731)

<223> Corresponding to the sequence (689-1416) in the GenBank database (Accession: X00695), except for several variations.

<220>

<221> variation

<222> (38)..(731)

<223> 1 bp insertion

<220>

<221> variation

<222> (196)..(731)

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<223> T to A exchange

<220>

<221> variation

<222> (346).. (731)

<223> T to G exchange

<220>

<221> variation

<222> (577).. (731)

<223> T to A exchange

<220>

<221> variation

<222> (688).. (689)

<223> 2 bp insertion (CT)

<400> 8

ctgagtattt aacaatcgca ccctttaaaa aatgtacaat agacattaag agacttaaac	60
agatatataa tcatttttaa ttaaaatagc gttaaacagt acctcaagct caataagcat	120
tttaagtatt ctaatcttag tatttctcta gctgacatgt aagaagcaat ctatcttatt	180
gtatgcaatt agtcattgt gtggataaaa aggtaaaacc attctgaaac aggaaaccaa	240
tacaattcct gttaaatcaa caaatctaaa catttattct tttcatctgt ttactcttgc	300
tctgttcac cacaatatgc tattcacatg ttcagtgtag ttttaggaca aagaaaattt	360
tctgagttac tttgtatcc ccacccctt aaagaaagga ggaaaaactg tttcatacag	420
aaggcgtaa ttgcatgaat tagagctatc acctaatgt gggctaattg aacaaagagg	480
gatttcacct acatccattc agtcagtott tgggggttta aagaaattcc aaagagtc	540
cagaagagga aaaatgaagg taatgttttt tcagacaggt aaagtcttg aaaatatgtg	600
taatatgtaa aacattttga caccgccata atatttttcc agaattaaca gtataaattg	660
catctcttgt tcaagagttc cctatcactc tctttaatca ctactcacag taacctcaac	720
tctgccaca a	731

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<210> 9
 <211> 819
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(819)
 <223> Human GATA- 1 gene promoter region

<220>
 <221> misc_feature
 <222> (1)..(819)
 <223> Corresponding to the sequence (5342-6160) reported by K. Blechschmidt et al. / GenBank (Accession: AF196971)

<220>
 <221> misc_feature
 <222> (790)..(819)
 <223> The putative transcription initiation site of the GATA-1 gene promoter

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 atccctggct cccacctcag ttcccccgt ccaaggcagc atggcgggca agaagttgag 60
 gccactgtcc ctgggtgttc ctacccccac accctcacc caagacagcc tggtactgag 120
 gcgccaacag ccacggtgca ctacatctga taagacttat ctgctgcccc agggcaggcc 180
 ggagctggcg taagccccag tggggcgcta agtgagtgtg cccctgcctc ccgccagcac 240
 tggcctggcc tgcaggctta gcctgggtca tcaaggtatc ccacaggctc tagttcaa 300
 ccagcagaac ctctctgagc ctactcttc tcacctgaa aatgggtaca gccacatccc 360
 ttctctccct gcagccagga agacgcacat acacaggagt ctagccaca ccggccccgc 420
 acaaattaag ggctttactc ttgaaaagc ccagtgaagt catgaaacca tatctgtat 480
 ttctatttat cttggtttca gcctattttg cttgtctgga cactacagtc cagggagacc 540
 taggtogagc gaggtccaag aatccccagg gtgggcaggg aggggtggaag agggcctcca 600
 gtgccaaga ggtgccccac aagcatggga cccgccccct cccctggact gccccacca 660

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ctggggcacc agccactccc tggggaggag ggaggagga gaaggaggagg agggaggagg 720
 ggaggaagg agcctcaaag gccaaaggcca gccaggacac cccctgggat cacactgagc 780
 ttgccacatc cccaaggcgg ccgaaccctc cgcaaccac 819

<210> 10
 <211> 637
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(637)
 <223> Human GATA- 1 gene enhancer region

<220>
 <221> misc_feature
 <222> (1)..(637)
 <223> Corresponding to the sequence (2362-2998) reported by K. Blechs
 chmidt et al. / GenBank (Accession: AF196971)

<400> 10
 accccagaag atgccaggag ggagtgagcc agtcaggga ggcttccgag aagagaggac 60
 attgaagaag agtctcaaac ttaggcctga cggagaagac gcgcggccag gacacccac 120
 ccccgccctc gtctcccca aagcctgata tggccccact gattccctta tctgcccact 180
 cccagctgcc tccttgctgg ctgaactgtc gccgcagact tctgagcctg cgcgccctcc 240
 acggggatgg gggagggaat ggggtgaggc ctggcctcac agcctcgggg tttccagctc 300
 ttgttgagg cagggtcttg gggcgcccta ctctcacc ttggcttctc ttctgagcg 360
 ctctgtgtc tccagaaatg aagaaatggg gtgagtccag cggccaaacc cttgtcttag 420
 ctcttagaca tgcctogagc ctgccattcc ctgtgaggac agatttcct atgttgagc 480
 cgctgttct aataataata atgatgatga taattccat ttacagagca caccatttat 540
 ggtgtgccag caggccctgt gctgagtgg tctaccac gtggggggct aggactttac 600
 ccgttttcca gatgaagaaa ctgaggctca gagggcg 637

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<210> 11
<211> 434
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(434)
<223> Human interleukin-2 (IL-2) gene 5'-flanking region

<220>
<221> TATA_signal
<222> (355)..(360)
<223>

<220>
<221> misc_feature
<222> (379)..(360)
<223> The putative transcription initiation site of the IL-2 gene promoter

<220>
<221> misc_feature
<222> (1)..(434)
<223> Corresponding to the sequence (+985 to +1416) in the GenBank database (Accession: X00695), except for several variations.

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<221> variation
<222> (49)..(434)
<223> T to G exchange

<220>
<221> variation
<222> (280)..(434)
<223> T to A exchange

<220>
<221> variation
<222> (391)..(392)
<223> 2 bp insertion (CT)

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<400> 11
 tgctcttgtc caccacaata tgctattcac atgttcagtg tagttttagg acaaagaaaa 60
 tttttctgagt tacttttcta tccccacccc cttaaagaaa ggaggaaaaa ctgtttcata 120
 cagaaggcgt taattgcatg aattagagct atcacctaag tgtgggctaa tgtaacaaag 180
 agggatttca cctacatcca ttcagtcagt ctttgggggt ttaaagaaat tccaaagagt 240
 catcagaaga ggaaaaatga aggtaatggt ttttcagaca ggtaaagtct ttgaaaatat 300
 gtgtaatatg taaaacattt tgacaacccc ataatatatt tccagaatta acagtataaa 360
 ttgcatctct tgttcaagag ttccctatca ctctctttta tcaactactca cagtaacctc 420
 aactcctgcc acaa 434

<210> 12
 <211> 59
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> CEBP-11, synthetic DNA

<400> 12
 cgcgttgagc aagacttgag caagtacttg agcaagcgtt gagcaaggct tgagcaagc 59

<210> 13
 <211> 59
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> CEBP-12, synthetic DNA

<400> 13
 tcgagcttgc tcaagccttg ctcaacgctt gctcaagtac ttgctcaagt cttgctcaa 59

<210> 14
 <211> 51
 <212> DNA
 <213> Artificial Sequence

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<220>

<223> HSE-11, synthetic DNA

<400> 14

cgcgctctaga atgttctaga tctagaacat tctagctaga atgttctaga c

51

<210> 15

<211> 51

<212> DNA

<213> Artificial Sequence

<220>

<223> HSE-12, synthetic DNA

<400> 15

tcgagtctag aacattctag ctagaatgtt ctagatctag aacattctag a

51

<210> 16

<211> 651

<212> DNA

<213> Artificial Sequence

<220>

<223> GATA-1 gene HSI region (mutant)

<220>

<221> mutation

<222> (178)..(178)

<223> in vitro mutation (from "a" to "g")

<220>

<221> mutation

<222> (519)..(519)

<223> in vitro mutation (from "t" to "g")

<400> 16

ctacgcgtac cccagaagat gccaggaggg agtgagccag tcagggaagg cttccgagaa 60

gagaggacat tgaagaagag tctcaaactt aggcctgacg gagaagacgc gcggccagga 120

caccacccc cggccctcgt ctcccccaaa gcctgatctg gcccactga ttcccttgtc 180

tgcccactcc cagctgcctc cttgctggct gaactgtcgc cgcagacttc tgagcctgcg 240

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ccccctccac ggggatgggg gagggaatgg ggtgaggcct ggcctcacag cctcgggggtt 300
tccagctctt gctggaggca gggctctggg gcgccctact cctcaccctt ggcttctctt 360
cctgagcgct ctgtgctctc cagaaatgaa gaaatggggg gaggccagcg gccaaaccct 420
tgtcttagct cttagacatg cctcagagcct gccattccct gtgaggacag atttcctat 480
gttgcgaccg ctgcttctaa taataataat gatgatgaga attcccattt acagagcaca 540
ccatttatgg tgtgccagca ggccctgtgc tgagtgggtc ctaccacgt ggggggctag 600
gactttaccc gttttccaga tgaagaaact gaggcacaga gggcagatct g 651

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<210> 17
 <211> 838
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> GATA-1 gene IE promoter (mutant)

<220>
 <221> mutation
 <222> (160)..(160)
 <223> in vitro mutation (from "t" to "g")

<220>
 <221> mutation
 <222> (168)..(168)
 <223> in vitro mutation (from "a" to "g")

<220>
 <221> mutation
 <222> (287)..(287)
 <223> in vitro mutation (from "a" to "g")

<220>
 <221> mutation
 <222> (482)..(482)
 <223> in vitro mutation (from "t" to "g")

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<220>

<221> mutation

<222> (498)..(498)

<223> in vitro mutation (from "a" to "g")

<220>

<221> mutation

<222> (798)..(798)

<223> in vitro mutation (from "t" to "g")

<400> 17

atagatctga tccctggctc ccacctcagt ttcccgctc caaggcagca tggcgggcaa	60
gaagttgagg ccaactgtccc tgggtgttcc taccgccaca ccctcacccc aagacagcct	120
gttactgogg cgccaacagc cacggtcgcc tacatctgag aagacttgtc tgctgccccca	180
gggcaggccg gagctggcgt aagccccagt ggggcgctaa gtgagtgtgc ccctgcctcc	240
cgccagcact ggcctggcct gcaggcttag cctgggtcat caagggtgcc cacaggctct	300
agttcaaata cagcagaacc tctctgagcc tcaactttct cacctgaaa atgggtacag	360
ccacatccct tctctccctg cagccaggaa gacgcacata cacaggagtc tagccacac	420
cggcccgca caaattaagg gctttactct ctgaaaagcc cagtgaagtc atgaaacat	480
agctgctatt ttcatttgtc ttggtttcag cctattttgc ttgtctggac actacagtcc	540
acgggagcct aggtcgagcg aggtccaaga atccccaggg tgggcaggga gggtggaaga	600
gggcctccag tgcccaagag gtgccccaca agcatgggac ccgccccctc ccctggactg	660
ccccaccac tggggcacca gccactccct ggggaggagg gaggaggag aaggaggga	720
gggaggagg gaggaaggga gcctcaaagg ccaaggccag ccaggacacc ccctgggatc	780
acactgagct tgccacagcc ccaaggcggc cgaaccctcc gcaaccacca aagcttat	838